US ERA ARCHIVE DOCUMENT

TECHNICAL SUPPORT SECTION TOXICOLOGY REVIEW - I

| | IN March 3 92 OUT March 9 92 |
|-------|---|
| | Reviewed by Alex Arce Date March 9 92 |
| | EPA Reg. No. or File Symbol 1965-55 |
| | EPA Petition or EUP No. None |
| | Date Division Received 12 24/91 |
| | Type Product(s): I, D, H, F, N, R, S Industrial Preservative |
| | Data Accession No(s). 43572,42078,416205-01,417737-01 |
| | Product Mgr. No. 31 , John Lee/ Delaney |
| | Product Name(s) VANCIDE TH |
| | Company Name(s) R. T. Vanderbiit:Inc. |
| | Submission Purpose Review of previously submitted data, newly |
| | submitted data and latest label |
| | Chemical & Formulation Liquid |
| | |
| | |
| | Active Ingredient(s): |
| Hexah | nydro-1,3,5- triethyl-s-triazone 95 % |
| | |

CONCLUSION The label has to be revised in order that the "Precautionary Statement" follows the requirements as per the results of the submitted Acute Toxicity Data.

| COMMENTS | : Th | e sub | mitted | data is | outmo | ded . 🖷 | | , | * |
|----------|------|-------|--------|---------|-------|---------|---------|--------------|---------|
| dustria | | | | 7 | | arroa a | 10 un 1 | | . c. on |
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| | | | | | | | | , | |

The Acute Dermal LD50 study although classified as supplementary data do not have to be repeated due to the fact that the product

appears to be corrosive while tested for Skin Irritation

COMMENTS: Part of the data in files is outmoded. However, due to the fact that the product is corrosive, The following data is not required Skin Irritation, Eye Irritation, Dermal Ld50.

The previously submitted Acute Inhalation Toxicity Study has been found to be unacceptable, such data is not required at the present.

Based in conversations with H E D (via J. Wilson) I learned that H E D does not require an Acute Inhalation Toxicity Study.

The product however is volatil and has a "repugnant odor", it appears that the product is an Industrail Preservative for Industrial Use Only. I was informed that the registrant is in the process of conducting a new Acute Inhalation Study

The outmoded unacceptable eye irritation study raises a question . While the product exhibits corrosive properties via dermal irritation the eye study (Unacceptable) shows that the product is not corrosive to the eye.

BACKGROUND

The product will be used as. Industrial Preservative

RECOMMENDATIONS

The data submitted are adequate to place the product in the following toxicity categories

| 2100 | TUXTUTTY CATEGORY | <i>p</i> |
|----------------|---|--|
| Acute Oral | Tox Cat 11 (Mrid 43522) and Tox Cat 11 (Mrid | 417737-01) |
| Acute Dermal | Supplementary data New study is not required | MT AND |
| Acute Inhala | cion Not acceptable | |
| Skin Irritat | on Tox Cat 1 CORROSIVE | |
| Eye Irritation | on Not acceptable | • |
| | cization <u>Mild (weak) sensitizer</u> | * |
| Acute 24 ho | urs dermal; dilutionstests Supplementary data | • |
| Other Studies | required or recomendations for request of further testing | • |
| | n in the state of | • |
| T1 | | TO TO |
| COMMODEVE | , non- le tout, le not acceptuele | * |
| | this relation and while heated appointing related In | marable leve |
| CRP STATUS | | |

This product does not require special packaging

Labe1

placed on the label in order to satisfy regulations of the DOT Revise the label as follows: Under the "Precautionary Statement" delete the phrase "or harmful", and add "if swallowed, inhaled or absorved through the skin"; to read, "May be fatal if swallowed, inhaled or absorved through the skin".

Under the "Statement of Practical Treatment", delete the phrase "of milk, egg whites, gelatin solution or if these are not available, to read " If swallowed drink promptly large quantities of water" Add the sentence " Contact with this product may induce dermal sensitization".

The word "POISON" and the SKULL and CROSS BONES has been

DATA REVIEW

Hilltop Research Inc.

| Acute Oral LDsn CFR 81.1 Report date: Aug 23 66 MRID No. 43522 Method of Testing: CFR 81-1 Modified Species: Rats Male Age: Adult Levels Tested: 0.0191. 0.0412.0.0887, 0.191, 0.0412.0.887 and 4.12 The s.g. was 0.887 No. Animals/dose: 5 males Weights: Acceptable Via: Intubation Material: Diluted in saline Conservation days: 14 Necropsy: All animals Procedure The rats were treated with the material in empty comachs and observed for signs of toxicity Results Signs of Toxicity: Depression , salivation, coma 'tortality: 5/5 at 0.412,0.887 and 4.12 g/kg, No deaths at other Body weights: The survivors gained Necropsy: Congestion of the adrenals, kidneys and G I irritati Conclusion: The Acute Oral LD50 is 0.280 gm/kg or 280 mg/kg Core Minimum data | Laboratory test identification No. | mhom A 460 |
|--|--------------------------------------|---------------------------------------|
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| Conclusion: The Acute Oral LD50 is 0.280 gm/kg or 280 mg/kg | Necropsy: Congestion of the | adrenals, kidneys and G I irritation |
| Minimum | | |
| Minimum | | |
| Core Minimum data | Conclusion: The Acute Oral LD50 is | 0.280 gm/kg or 280 mg/kg |
| Core Minimum data | | |
| | Core Minimum da | ıta |
| Toxicity Category: 11 | | |
| TE: Although only male rats were used and the Ld50 was calculated | | |
| om the all or none deaths response, the study provides sufficient information for a toxicity category classes. | E: Although only male rats wer | re used and the Ld50 was calculated |

DATA REVIEW

| Test Laboratory: Exxon Bion | |
|---|--|
| Laboratory test identification | Number <u>Case Number 3147</u> |
| · · | |
| Acute Or | al LD ₅₀ CFR 81.1 |
| | |
| 7 20 01 | A17777 01 |
| Report date: Jan 28-91 | MRID No. 417737-01 |
| Method of Testing: CFR 81-1 | |
| Species: Rat Sex: M | Male and female Age: adult |
| Levels Tested: 150,300, an | |
| | No. Animals/dose: 5 m and 5 f |
| Weights: Acceptable | Via: Intubation . |
| Material: Diluted in water | T Observation days: 14 |
| | |
| Procedure The rats were | Necropsy: All animals e treated with the material in empty |
| Procedure The rats were omachs and observed for si | Necropsy: All animals e treated with the material in empty |
| The rats were omachs and observed for si | Necropsy: All animals e treated with the material in empty igns of toxicity |
| omachs and observed for si | Necropsy: All animals e treated with the material in empty igns of toxicity |
| The rats were omachs and observed for single Results Signs of Toxcity: Oral disch | Necropsy: All animals e treated with the material in empty igns of toxicity |
| The rats were omachs and observed for single Results Signs of Toxcity: Oral dischedity: 3/10 at 150, 6/ | Necropsy: All animals e treated with the material in empty igns of toxicity harge , dispnea , rales |
| Results Signs of Toxcity: Oral disched Mortality: 3/10 at 150, 6/ Pody weiligts: The surviv | Necropsy: All animals e treated with the material in empty igns of toxicity harge , dispnea , rales /10 at 300, 10/10 at 600. mg/kg |
| Results Signs of Toxcity: oral disched the control of the control | Necropsy: All animals e treated with the material in empty igns of toxicity harge , dispnea , rales /10 at 300, 10/10 at 600. mg/kg vors gained weight |
| Results Signs of Toxcity: oral disched the control of the control | Necropsy: All animals e treated with the material in empty igns of toxicity harge , dispnea , rales /10 at 300, 10/10 at 600. mg/kg vors gained weight discoloration of the GI tract. |

Acute Dermal LDso CFR 81.2

Test Number q-169

Hill Top Research

Laboratory

| | • |
|--|--------------------------------|
| Report Date: aug 23 66 | 43522 MRID No. |
| Method of Testing: CFR 81=2 | |
| Species: Rabbits Sex: M and F Age: | Adult |
| Tevels Tested: 0.191, 0.412, 0.887 and | No.g/Akimals/dose_2m and 2 f |
| 1.91 g/kg | Via: Occluded patch |
| Weight: Acceptable | Observation days: 14 |
| Material: Undiluted | Necropsy: Gross nec. in all |
| Procedure | |
| The material was applied to | a previously clipped |
| area in the abdomen, 2 rabbits in each gro | Oup received the material |
| in abraded areas. A protective wrap was used | d and the animals work. |
| observed for signs of toxicity at intervals | and the animals were |
| | |
| | |
| | • |
| | |
| Result | |
| Signs of Toxicity: Shallow respitation | at the two largest dose lev |
| Mortality: 2/4 at 0.412,3/4 at 0.887 a | |
| | ar ar 1.91 67 kg |
| Body weights: Acceptable | |
| Necropsy: congested lungs and kidney | s . adhesions of intestines |
| and peritoneum THE PRODUCT IS CORRO | SIVE TO THE SKIN |
| Conclusions: The Acute Dermal LD50 is 0.449 | |
| | |
| Core Supplementary data da | ka je na jednosti i se se je s |
| Toxicity Category: Not sufficient inform | ation provided |
| The test does not adheres to CFR 81-2 | Tuen |
| | |

Primary Skin Trritation

CFR 81.5

Hill Top Research Inc. # Q-169
Patch Test for primary irritation and corrosivity- Rabbits

| Report Date: Aug 23 66 | MRID No.: 43522 |
|---|--|
| Method of Testing: CFR 81-5 | |
| Species: Rabbit | Observation days: 72 hours |
| No. of animals 6 | Material: Undiluted |
| Dose: 0.5 ml | Via: Occluded patch test |
| Areas: Intact and abraded | Necropsy: Ne |
| <u>Procedure</u> The rabbits were treated clipped areas of the skin and observe | with the material in previously ed for signs of irritation |
| | |
| Results: Severe Irritat | ion was found inallanimals |
| Conclusion: The product is a Severe THE PRODUCT IS CORROSIVE | skin irritant |
| Core Minimum data Toxicity Category: 1 | |

Primary Eye Irritation

CFR 81.4

Hill Top Research Inc Test # Q 169

| Report Date: Aug 23 66 MF | RID No.: 43522 |
|---|--|
| Method of Testing CFR 81-4 | |
| Species: Rabbit | Observation days: 72 hours |
| Dose: 0.1m1 | Materials: Undilited |
| No. of animals: 6 | Via: Eye instillation |
| Areas: One eye | Necropsy: No |
| One eye of each anim material and observe | al was treated with the d for signs of eye irritation |
| | · · · · · · · · · · · · · · · · · · · |
| | |
| | |
| | |
| | |
| | • |
| Results: Moderate Corneal opacity | iritis Iritis developed 6/6 |
| Conjunctival irritation was moderate | in all rabbits |
| Theseyes cleared at: The time in t | which the eyes cleared is not |
| clearly established, thus the te | est provides not sufficient info |
| Core Unacceptable data | • |
| Toxicity Category: Not established | |
| The submitted data is incompleted | • • • • • • • • • • • • • • • • • • • |

| TOTAL TOP | alation (Con | CFP 31.3 |
|-----------|--------------|----------|
| | TACTON INCEN | USS 3173 |
| | | |

Laboratory Hill Top Research Test Number Q 164
Title " Acute Inhalation Exposure -Rats"

| Report | Date: 8-23-66 | YPID: 43522 | 2 | |
|---|--|--|--|---|
| Method | of Testing: No estate | ed Measurements | · Nominal No | Actual Yes |
| Species | s: Rat Sex: Ma | le only age: Adult | Chamber size: | 29 X 30 c |
| Levels cancen Tempera | Tested: Not mention tration, 55.3 and 2 ture Not mentAir Flow | ed ; Two No.an: .66 mg/1 / Not mentidia:_ | imals/dose: | ass jar Osure |
| | : Acceptable | | vation days: 14 | |
| Materia | al: Aerosol mist | | psy: <u>All anim</u> | |
| of an aerosologed with one An atomizer was by substrating from the weigh of the multipus Results Signs of the at 2.6 | The rats were in a glass jar source of entry and was used. The concerns the weight of the ght at the beguining in minutes (d) of toxicity: at 55.3 to 10/10 ity: at 55.3 10/10 | for 1 HOUR. The danother for extration of the restantion of the restant the example at the example as A-B c X d C X d X d | glass jar was it for the aer material was o end of the exp ng it by the p L/m times the ncentration in | s equi- rosol. calculated cosure(A) croduct exposure n mg/l |
| Body W | eights: Not reporte | eđ . | , | |
| Necrope | at 55.3 , kidney | congestion; at | 2.66 , no gro | ss path. |
| Conclus | sions: The Acute Inhala | • | established | - |
| Core_N | ot acceptable da | ca (Only males | . 1 hour exp | osure) |
| Toxici | ty Category: Incom | pleted informati | on | |

| Acute Dermal LD ₅₀ CFR | • |
|--|------------------------------|
| Title: Acute 24 hour dermal studies of V | |
| Laboratory: Duquesne University | Test Number None |
| This is an unsolicited data | |
| Report Date: April 23 1970 | MRID No. 42078 |
| Method of Testing: Method Development | |
| Species: Rabbits Sex: M and F Age: | adult |
| Tevels Tested: 1000 and 10,000 ppm | No./animals/dose_5 m and 5 f |
| | via: Occluded aptch |
| Weight: Acceptable | Observation days: 14 |
| Material: Diluted | Necropsy: All animals |
| one female were used as control; per dose The animals were obsrved for signs of to | |
| | |
| | |
| <u>Result</u> | |
| Signs of Toxicity: Mild dermal irrita | |
| | |
| Mortality: None . NOTE - In the Acute occured at the 0.412 g/kg All animals Body weights: Most animals gained weight | died at 1.91 g/kg |
| Necropsy: <u>Emmentedxinnexxandxkidnexxxx</u> | xanitaatuixadxthexintestines |
| toxthexperitomenux No signs of tox | cicity |
| Conclusions: The Acute Dermal LD ₅₀ is N/a | |
| Core Supplementary data d | ata |
| manufatha makanama anta | |
| Toxicity Category: N/A | |
| This test is doubtfull. The results of | |

| | Dermal Sensitization | CFR. 81.6 |
|---------|--|---|
| a" w | Laboratory Exmon Biomodical Sciences Inc Test No. | h |
| | Toxicology Laboratory Report Date: Aug 23 1990 MRID No. | 41620501 |
| | Other pertaining Info The test used is the Buehler test | |
| | Method of Testing: CFR 81-6 | |
| | Modifications : The Buehler test was modified | |
| | Specie: G. P No. of applications/week; 3 at in No of we induction Dose: 0.4ml of 5%Area of applic:dorsal induct. Days of hefore 6 | |
| | Challenge dose: 0.4 mlNo. of applic. 1 of 1% Pose: Topic Rechallenge, same as challenge Areas: dorsal surface Pilot Study | al |
| | | lvent No Positive : Yes |
| | | gative: NoNaive: Yes wurlulum; YELV |
| 1 DN | PROCEDURE The animals were treated with the material indication during the indication at challenge and rechallenge. Topical application ,processes was used as positive control. An irritation control of the indication is a second of the skin; 9 application ,processes with the material indication and indication in the indication is a second of the indication in the indication in the indication is a second of the animals were treated with the material indication in the indicati | oction period and otected with a wrap. |
| | Results: Severe erythema and slight edema in all animal Challenge, 1 animal showed well defined erythema at 2 re-challenge 4 animals were positive for erythema | |
| | Erythema: Induction -++ Neg Neg Naive Not Test +++ Induction Edema: Control Pos +++ Neg Neg Naive Not Test Negation Neg Neg Naive Not Test Negation | Challenge 1/10 + ve Challenge Negative |
| | Conclusions: The product is a weak | Rechallenge 4/10 + for erythema dermal sensitizer |
| | | |
| | Core Minimum data | |
| • | Coxicity Category: N/A | |
| | | |